



Arabidopsis_(gi 3935185)	TKVFHRTKPLVVTTPQVNYTA--YEMDRFFADIGFSQGVVPYKTRVLPLTEELMTPGVPV		
corn_(SEQ ID NO:2)	PAVFGR--RPLVVTARNYSA--YDLEDLLVAVGYGAGVEFRRRAVPKMSYFQAPMVPT		
corn_(SEQ ID NO:4)	PNAFRA-GQPLVTTTRSTYTA--HDMADFLDAIGLGAIVPYQSRVLPFLFRELPSRVPV		
corn_(SEQ ID NO:6)	PAVFGRLQAPLVVTRERNYSASAHDMERELAAVGSGEAAEFRRRAVPKMGSAAPMVPV		
soybean_(SEQ ID NO:8)	PKIF-GPQKPIVITPIRPYSA--HDMVDFLKDIGFPEGVYPYETRIPLIGNIKAPQVPI		
Arabidopsis_(gi 3935185)	TCIY	KQPEIK-	ASLAAL-----KVDS-LN
corn_(SEQ ID NO:2)	TCMN	ATPEIV-	VSMLAFDEKMRRRQPEQNKVYK
corn_(SEQ ID NO:4)	ACVV	VTPMMV-	VSLLAVDP-AWRLPTA-Y-FR
corn_(SEQ ID NO:6)	TYIS	AAPEVAA	ISVLAFEKEMRRRQPEQKKQFK
soybean_(SEQ ID NO:8)	TCIM	ERPEIS-	VSLLALQS-LWKEKNQY-LK
Arabidopsis_(gi 3935185)	TVEIDGVSHTSILKDEIALKEIMKQISIINY--ELANVNAVNE		
corn_(SEQ ID NO:2)	SIKIRGAQHGTVTDDTALKRVMHEILEANR-----S		
corn_(SEQ ID NO:4)	MLKVRNVSHTGFLVDDAALAVIISAI-----LRPN		
corn_(SEQ ID NO:6)	SIKINKAQHSTIVTDDFALHRVIOEIVEANNQK-----IPS		
soybean_(SEQ ID NO:8)	VVKIDGVSHTSILKDEVALNEIVGEITSINSHAEGLSLNLFSG		

FIG. 1B



Arabidopsis\_(gi 3935185) MKK-----I-SSHYSVVIAILVVVTMTSMCQAVGSN-----VYPLILVPGNGGNQLEVR  
corn\_(SEQ ID NO:2) MAR-IPQVLAPLALLLLPAGLR--ELMIDRRPLPKRCRREVLLHPLVLVPGGLTCSELDAR  
corn\_(SEQ ID NO:4) MVHDMAS-----CSRGGTIVLSKFASTTRRAPKQ-----LPPVVVVPGYATNELDAR  
corn\_(SEQ ID NO:6) MASSLIQQLLSLLLLPSPRLREHLSGNHAVSAN-----NEHPIFLVAGVSCSDLEAR  
soybean\_(SEQ ID NO:8) MKKEQEGL-KIEVATLTVTVVVVMLSLCTCGASN-----LDPLILIPGNGGNQLEAR

Arabidopsis\_(gi 3935185) LDREYKPSVWCSSWLYPIHKKGGWFRWFDAAVLLSPFT-RCFSDRMMLYYDPDLDDY  
corn\_(SEQ ID NO:2) LTDAYRPFRAACDE-----GEGVRLWTNCSDDLPAHHYVRCFMEQMALVYDPVANDY  
corn\_(SEQ ID NO:4) LTELHPSSPRCA-----HKKGWFRLYLNYTALEDAADVRCFAEQMATAYDAASDDY  
corn\_(SEQ ID NO:6) LTEEYRPSVPHCGA-----MKKGWFGWLKNSSELLSRDYVQCFFEQMSLVYDPAINEY  
soybean\_(SEQ ID NO:8) LTNQYKPSTFICESW-YPLIKKNGWFRLWFDSSVILAPFT-QCFAERMTHLHYHQELDDY

Arabidopsis\_(gi 3935185) QNAPGVQTRVPHPFGSTKSLLYLDPRLRDATSYMEHLVKALEKKKGYVNDQTIL  
corn\_(SEQ ID NO:2) RNLPGVETRVRNFGSSRGF-QKNPEHTTWSWCFEVLRNELARA-GYRDGDTLF  
corn\_(SEQ ID NO:4) RNAQGVETRVPFFGSTRAFYPPDPRNF-SYMDKFVSRLERL-AYRDGENLF  
corn\_(SEQ ID NO:6) RNLAGVETRVPNFGSTRAFSHKNPLKSD--WCLGKLRAALEDN-GYRDGDTMF  
soybean\_(SEQ ID NO:8) FNTPGVETRVPHPFGSTNSLLYLNPRLKHITGYMAPLVDSLQKL-GYADGETLF

Arabidopsis\_(gi 3935185) GLAASGHPSRVASQFLQDLKQVEKTSSENEGKPVILLS LFVLHFLNRTTPSWR  
corn\_(SEQ ID NO:2) APPVPGQPSRSSPATSVGWPSLVEDASRKNRGRKVLFG MVALEFVRSTPMAWR  
corn\_(SEQ ID NO:4) AVAPPGHPSRVADAFFGRRLRLVERASRANGGPPVTIVA TVAHQFLLRPLPWR  
corn\_(SEQ ID NO:6) APPSPGQTSSEVYSRYFKELMELVEAASERTR-KKAVILG MVALEFVRNTPPAWR  
soybean\_(SEQ ID NO:8) GLAAEGHPSQVGSKFLKDLKNLIEEASNSNNGKPVILLS LFVLQLLNRNPPSWR

Arabidopsis\_(gi 3935185) RYIKHFEVALAAPW-GGTISQMKTFASGNTLG-VPLVNPL--LVRRHQRTSESNQWLLPS  
corn\_(SEQ ID NO:2) DRYIKHFLVAPVPAEGFVKPLQYFVSGSNLMYVPTVSSLEPAFRPMWRTFESSLVNFP  
corn\_(SEQ ID NO:4) RRFVRRFVPAAPW-GGVVLGMLTIVAGNNLG-LPFVDPL--ALKGEYRSLSQSSLWPLPN  
corn\_(SEQ ID NO:6) REHIERLVLVAPTLPGGFLEPVRNFAAGTDILYVPATTPLAT--RAMWRSFESAIVNFP  
soybean\_(SEQ ID NO:8) KKFIKHFIALSAPW-GGAIDEMYTFASGNTLG-VPLVDPL--LVRDEQRSSESNLWLLPN

FIG. 1A